

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:

Ken A. Beggs

Serial No.: (unknown)

Filed: July 7, 2000

For: CHAIR SEAT TILT MECHANISM



Group Art Unit: (unknown)

Examiner: (unknown)

Attorney Docket: 05171-71

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SUPPLEMENTAL INFORMATION DISCLOSURE DECLARATION

The Assistant Commissioner for Patents
Washington, D.C. 20231
U.S.A.

Dear Sir:

CERTIFICATE OF MAILING 37 C.F.R. 1.8	
I hereby certify that this correspondence is being deposited with the U.S. Postal Service as First Class Mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231, on:	
<u>10/9/00</u> Date	<u>Sandy Howell</u> Signature

I, Ken A. Beggs, hereby declare as follows:

1. I am the named inventor in the above U.S. patent application entitled CHAIR SEAT TILT MECHANISM, the declaration for which was signed June 27, 2000.
2. Our firm, Northfield Metal Products Limited, produces a chair control known as the Regular Free Float. I request that this mechanism be considered prior art relative to the above application.
3. The structure and operation of the Regular Free Float chair control is described with reference to Figures 1, 2 and 3, attached hereto, comprising photographs of the mechanism from various perspectives. In particular, Figure 1 is a left side view of the chair control; Figure 2 is a top left perspective view of the chair control; and Figure 3 is a bottom, right perspective view of a portion of the chair control mechanism. In each of Figures 1 to 3, the chair control is shown in a locked, partially reclined position.

The Regular Free Float chair control has a main frame 22 for mounting to a chair spindle; a seat plate 26 for supporting a chair seat; and a back bracket 24 which may be attached to a mounting arm for supporting a chair back. Seat plate 26 and back bracket 24 are

pivotally mounted near their front ends to the front end of main frame 22 by way of forward pivot 30 (Figures 1 and 2). Near the other (rear) end of seat plate 26, a seat pin 14 (Figures 1 and 2) is affixed to seat plate 26. Back bracket 24 additionally has, rigidly affixed near its rear end, two sets of bracket clutch plates 16 (Figures 2 and 3) with two sets of curved slots 18 accommodating seat pin 14. As well, a bracket pin 20 (Figure 2) is mounted to back bracket 24 between forward pivot 30 and bracket clutch plates 16. The rear end of main frame 22 has two sets of main frame clutch plates 34 (Figures 2 and 3) affixed thereto with slots 36 accommodating seat pin 14. Spring 52 on seat pin 14 selectively compresses the clutch plates to lock the back bracket 24 and seat plate 26 in position with respect to the main frame 22. Main frame 22 includes a pair of slots (not visible) which accommodate bracket pin 20.

A primary biasing spring 72 (Figure 2) acts between the main frame 22 and the bracket pin 20 in order to bias the back bracket 24 to a resting position. Springs 60 (Figure 2) act between the rear of seat plate 26 and the rear of back bracket 24 to bias seat pin 14 against the bottom of the curved slots 18 of bracket clutch plates 16. It will be understood that, in Figures 1 to 3, seat pin 14 is not biased against the bottom of slots 18 since clutch plates 34 and 16 have been locked in partially reclined position.

When the chair back is in its resting, non-reclined position and an occupant exerts downward force on the front of the seat sufficient to overcome springs 60, the seat plate 26 will rotate about forward pivot 30 to tilt forwardly. When an occupant leans back in the chair to overcome spring 72, the back bracket 24 will rotate in a clockwise direction about forward pivot 30, and a backwards tilting of the chair back will result. In a fully reclined position, clutch plates 16 and slots 18 will be in a lowered position in which forward tilting of the seat plate 26 will be restricted, should the occupant apply a downward force on the front of the seat with his legs, by virtue of the seat pin 14 impacting the top of slots 18.

DECLARED AT WATERLOO, ONTARIO, CANADA, this 5 day of SEPTEMBER, 2000.
(city, province, country)


Ken A. Beggs

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:

Ken A. Beggs

Serial No.: 09/611,506

Filed: July 7, 2000

For: CHAIR SEAT TILT MECHANISM



Group Art Unit:

Examiner: (unknown)

Attorney Docket: LGPL.76327

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INFORMATION DISCLOSURE STATEMENT

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10/9/00 Date	<i>Sandy Howell</i> Signature

Pursuant to 37 C.F.R. §1.56, the reference listed on the attached Form PTO-1449 is called to the attention of the Patent Office in connection with the above-identified application.

A Declaration with photographs of the reference listed on the attached form is submitted herewith.

It is requested that the reference be considered prior art with respect to this application.

Respectfully submitted,

Ronald D. Faggetter
Registration No. 33,345

THE COMMISSIONER IS HEREBY AUTHORIZED TO
CHARGE ANY ADDITIONAL AMOUNT REQUIRED,
OR CREDIT ANY OVERPAYMENT, TO ACCOUNT
NO. 19-2112. A DUPLICATE COPY OF THIS SHEET
IS ENCLOSED.

October 6, 2000
Enclosures
(05171-71 RDF:bw)

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